

Unit 2, Lesson 4

Objective: Understand equations as a statement or question of truth

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Homework: 2.4 Equations Homework Sheet

Do Now

Simplify the following on the scrap paper that Mrs. Moore gave you.

$$12x + -7y + 4(2x - 13)$$

Announcements

Steps to retake a quiz

1. Make corrections on your quiz
2. Attend tutorial in order to study with Mrs. Moore
3. Schedule a time (on the tutorial signup sheet) to retake the quiz

Return Quizzes and Tests

Staple your Unit 2 Lesson 1 and 2 Quiz into your notebook on page 65



Notes

Unit 2, Lesson 4: Equations as statements or questions of truth

Equation: a statement that two expressions are equal
OR a mathematical sentence with an equal sign

$$3 + 2 = 4 + 1$$

When you finish writing these notes, make up your own equation.

Question

Which of these is an equation?

1. $5 - 4$
2. $5 - 3 = 1 + 1$
3. 23



Notes

Unit 2, Lesson 4: Equations as statements or questions of truth

Equation: a statement that two expressions are equal
OR a mathematical sentence with an equal sign

$$3 + 2 = 4 + 1$$

An equation is a statement of truth.

Which of the following is a true equation?

1. $6 + 3 = 8 + 1$
2. $7 + 3 = 7 - 1$
3. $6 + 3 = 8$



Notes

Unit 2, Lesson 4: Equations as statements or questions of truth

Algebraic equation: an equation with a variable

If an equation contains a variable, then our job is to figure out what value of the variable makes the equation true.

Solution: the value of the variable that makes an equation true



Notes

Unit 2, Lesson 4: Equations as statements or questions of truth

Example 1: Translate to a question

$$x + 7 = 12$$

Ask: What number plus seven gives me (equals) twelve?

Example 2: $x - 3 = 6$

Ask: What number take away three gives me six?



Notes

Unit 2, Lesson 4: Equations as statements or questions of truth

Example 3: $6x = 24$

Ask: What number times six gives me (equals) twenty-four?

Example 4: $x + (-5) = 4$

Ask: What number plus negative five gives me four?

The Last Seven Minutes...

1. Silently pack up everything except a pencil.
2. Carefully (and silently) pass the exit slips from window to wall.
3. Silently fill out your exit slip. Everyone deserves five minutes of **strong silence** to recall and apply all that we learned today.